

# **CITY OF GOODYEAR---2003 IRC AMENDMENTS**

## **EFFECTIVE JULY 1, 2004**

B. Effective July 1, 2004, there is herewith adopted, by reference, the International Residential Code, 2003 Edition, published by the International Code Council, be and the same are hereby adopted as the Code of the City of Goodyear for regulating the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment, use, height, area, and maintenance of all buildings or structures as defined in this Code in the City of Goodyear providing for issuance of permits and collection of fees therefore and each and all of the regulations, provisions, conditions and terms of such International Residential Code, 2003 Edition, published by the 04-911 of the Mayor and Council of the City of Goodyear, by reference in total and as if each of the provisions thereof were set forth herein, except as amended or modified as follows:

(1) Chapter 1, "Administration", is hereby amended as follows:

R101.1 Title. Insert the words "City of Goodyear" as the name of jurisdiction.

R102.5 Appendices. Provisions in the appendices shall not apply unless specifically referenced in the adopting ordinance. The following appendices are adopted:

APPENDIX B SIZING OF VENTING SYSTEMS SERVING APPLIANCES  
EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES, AND  
APPLIANCES LISTED FOR USE AND TYPE B VENTS

APPENDIX C EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT-  
VENT VENTING SYSTEMS

APPENDIX D RECOMMENDED PROCEDURE FOR SAFETY INSPECTION  
OF AN EXISTING APPLIANCE INSTALLATION

APPENDIX H PATIO COVERS

APPENDIX K SOUND TRANSMISSION

R102.7 Existing structures. Delete the words "or the International Fire Code" and insert in lieu thereof, 'as adopted by the City of Goodyear'.

105.3.2 Time limitation of application. Amend to read as follows:

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application had been pursued in good faith or a permit has been issued; except that the Building Official is authorized to grant one extension of time for a period not to exceed 90 days. The extension shall be requested in writing and justifiable cause demonstrated.

105.5 Expiration. Amend to read as follows:

Every permit issued shall become invalid unless the work authorized by such permit is commenced and required inspections are requested by the permittee and approved by the Building Official within 180 days after its issuance, or if more than 180 days elapses between approval of required inspections. The Building Official shall be authorized to grant one extension of time for a period not to exceed 180 days. Permits shall not be extended more than once and all requests for extensions shall be in writing. In order to renew action on a permit after expiration, a new full permit fee shall be paid based on the current fee schedule adopted by the City.

R107.3 Temporary power. Delete the words "ICC Electrical Code" and insert in lieu thereof, 'Electrical Code adopted by the City of Goodyear and amended from time.'

R110.1 Use and occupancy. Amend to read as follows:

No building or structure shall be used, occupied, or furnished in whole or in part, and no change in the existing occupancy classification of a building or structure or portion thereof be made until the Building Official has issued a certificate of occupancy therefor as provided herein.

Issuance of a certificate of occupancy shall not be construed as an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction. Certificates presuming to give authority to violate or cancel the provisions of this code or of other ordinances of the jurisdiction shall not be valid.

R110.2 Change in use. Add the following words to the end of the sentence:

'as adopted by the City of Goodyear and amended from time to time.'

R113.3 Prosecution of violation. If the notice of violation is not complied with in the time prescribed by such notice, the Building Official is authorized to request the legal counsel of the jurisdiction to institute the appropriate proceeding at law or in equity to restrain, correct or abate such violation, or to require the removal or termination of the unlawful occupancy of the building or structure in violation of the provisions of this code or of the order or direction made pursuant thereto.

(2) Chapter 2, "Definitions", is hereby amended by adding the following definition to read as follows:

**EXTERIOR WALL.** An above-grade wall that defines the exterior boundaries of a building. Includes between-floor spandrels, peripheral edges of floors, roofs and basement knee walls, dormer walls, gable end

walls, walls enclosing a mansard roof, and basement walls with an average below grade wall area that is less than 50 percent of the total opaque and non-opaque area of that enclosing side.

(3) Chapter 3, "Building Planning", is hereby amended to read as follows:

**Table R301.2(1)**, insert the following:

Roof Snow Load: N/A

Wind speed: 90 mph, Exposure **B (Unless otherwise designated by the Building Official)**

Seismic Design Category: B

Weathering: NEGLIGIBLE

Frost Line Depth: 12"

Termite: MODERATE TO HEAVY

Decay: NONE TO SLIGHT

Winter Design Temperature: 24 degrees F

Flood Hazards: (a) July 9, 1984, (b) July 19, 2001'

Modify Table R301.5, in part, to read as follows:

**TABLE R301.5**  
**MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS**  
**(In pounds per square foot)**

USE	LIVE LOAD
Attics with storage <sup>b</sup>	40
<b>Attics without storage <sup>b, g</sup></b>	<b>10</b>
Sleeping rooms	40

Footnotes a through f to remain unchanged.

g. For trussed systems, this load need not be considered as acting simultaneously with other live loads imposed upon the ceiling framing or its supporting structure.

**R306.4 Water supply to fixtures.** All plumbing fixtures shall be connected to an approved water supply. Kitchen sinks, lavatories, bathtubs, showers, bidets, laundry tubs and washing machine outlets shall be provided with hot and cold water. A 125-volt, 15-ampere-rated receptacle outlet shall be installed in an accessible location under each bathroom lavatory and kitchen sink to allow for the operation of a point-of-service hot water recirculating pump. If a central hot water recirculating pump is installed at the time of final inspection, the outlets will not be required. All hot water lines shall be completely insulated with a minimum of R-4 insulation.

**R309.1 Opening protection.** Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 1<sup>3</sup>/<sub>8</sub> inch (35 mm) in thickness, solid or honeycomb core steel doors not less than 1<sup>3</sup>/<sub>8</sub> inches (35 mm) thick, or 20-minute fire-rated doors. Doors providing opening protection shall be maintained self-closing and self-latching.

**R309.2, “Separation required”, add the following sentence:**

**R310.1, “Emergency rescue and escape openings”, add the following additional sentence to end of section:**

**Such openings shall open directly into a public street, public alley, yard or court.**

Revise Section 320.1, "Subterranean termite control", to read as follows:

**R320.1 Subterranean termite control.** In areas designated as "slight to moderate", "moderate to heavy" and "very heavy", as established by Table R301.2(1), methods of protection shall be by chemical soil treatment, pressure preservatively treated wood in accordance with the AWPAs standards listed in Section R319.1, naturally termite-resistant wood, or physical barriers (such as metal or plastic termite shields), or any combination of these methods.

Add new section R328 to read as follows:

**R328 Sound Attenuation.** Buildings covered under the International Residential Code shall be subject to the following provisions:

- 1) Exterior wall penetrations by pipe ducts or conduits shall be caulked.
- 2) Mailboxes shall not be used through the door or wall.
- 3) Windows shall have two panes of glass and sound transmission rating of STC-22. All operable windows shall be weather stripped and airtight in accordance with ASTM R-283-84-T Standard. Perimeter window frames shall be sealed to airtight specifications.
- 4) All non-glazed portions of exterior side-hinged doors shall be solid-core wood or insulated hollow metal or at least one and three-quarters inch thick and fully weather stripped. The perimeter doorframes shall be sealed to airtight specifications.
- 5) Fireplaces shall be provided with well fitting dampers, unless otherwise prohibited elsewhere in the Code.
- 6) Exterior walls shall be at least four inches in nominal depth and shall be finished on the outside with block, siding, sheathing, or stucco on one-inch Styrofoam. Fiberglass or cellulose insulation at least three and one-half inches thick shall be installed continuously throughout the cavity space behind the wall. **Total insulation R-value of the exterior wall assembly shall be R-18.**
- 7) **Attics and roof rafter spaces shall be insulated with a minimum insulation R-value of at least R-30.**

**Any residential structure, addition or alteration constructed within the DNL noise contours established in the 1988 Maricopa Association of Governments (MAG) Westside Joint Land Use Study shall comply with the Sound Attenuation requirements adopted by the MAG Building Codes Committee on April 17, 1996 as listed in Resolution # R04-2003."**

**If the specified requirements of section R328 are not met, the Building Official may approve as an alternative, a certification by an architect or**

**engineer registered pursuant to Title 32, Chapter 1 to achieve a maximum interior noise level of forty-five (45) decibels at time of final construction.**

(4) Chapter 4, "Foundations", is hereby amended to read as follows:

**Delete section R401.5 and add new section R401.4.2:**

**R401.4.2 Compressible or shifting soil. In lieu of a complete geotechnical evaluation, when top or subsoils are compressible or shifting, such soils shall be removed to a depth and width sufficient to assure stable moisture content in each active zone and shall not be used as fill or nor stabilized within each active zone by chemical, dewatering, or presaturation.**

(5) Chapter 10, "Chimneys and Fireplaces", is hereby amended to read as follows:

**TABLE R1003.1**  
**SUMMARY OF REQUIREMENTS FOR MASONRY FIREPLACES AND CHIMNEYS**

ITEM	LETTER <sup>a</sup>	REQUIREMENTS	SECTION
Hearth slab thickness	A	4"	R1003.9.1
Hearth extension (each side of opening)	B	8" fireplace opening < 6 sq. ft. 12" fireplace opening > 6 sq. ft.	R1003.10
Hearth extension (front of opening)	C	16" fireplace opening < 6 sq. ft. 20" fireplace opening > 6 sq. ft.	R1003.10
Hearth slab reinforcing	D	Reinforced to carry its own weight and all imposed loads.	R1003.9
Thickness of wall of firebox	E	10" solid brick or 8" where a firebrick lining is used. Joints in firebrick 1/4" max.	R1003.5
Distance from top of opening to throat	F	8"	R1003.7
Smoke chamber wall thickness	G	6" for lined walls 8" for unlined walls	R1003.8
Chimney Vertical reinforcing <sup>b</sup>	H	Four No. 4 full-length bars for chimney up to 40" wide. Add two No. 4 bars for each additional 40" or fraction of width or each additional flue	R1003.3.1
Horizontal reinforcing <sup>b</sup>	J	¼-inch ties at each 18 inches and two ties at each bend in vertical steel	R1003.3.2
Bond beams	K	No specified requirement	
Fireplace lintel	L	Noncombustible material.	R1003.7
Chimney walls with flue lining	M	Solid masonry units or hollow masonry units grouted solid with at least 4 inch nominal thickness.	R1001.7
Walls with unlined flue	N	8" solid masonry.	
Distances between adjacent flues	-	See Section R1001.10.	
Effective flue area (based on area of fireplace opening)	p	See Section R1001.12.	
Clearances: Combustible material Mantel and trim Above roof	R	See Sections R1001.15 and R003.12. See Section R1001.13. 3' at roofline and 2' at 10'.	
Anchorage <sup>b</sup> Strap Number Embedment into chimney Fasten to Bolts	S	3/16" x 1" Two 12" hooked around outer bar with 6" extension 4 joists Two 1/2" diameter.	R1003.4.1
Footing Thickness Width	T	12" min. 6" each side of fireplace wall.	R1003.2

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 square foot = 0.0929m<sup>2</sup>.

**NOTE:** This table provides a summary of major requirements for the construction of masonry chimneys and fireplaces. Letter references are to Figure R 1003.1, which shows examples of typical construction. This table does not cover all requirements, nor does it cover all aspects of the indicated requirements. For the actual mandatory requirements of the code, see the indicated section of text.

- a. The letters refer to Figure R 1003.1.
- b. Not required in Seismic Design Category A, B or C.

(6) Chapter 14, “Heating and Cooling Equipment”, is hereby amended to read as follows:

**M1403.2 Foundations and supports.** Supports and foundations for the outdoor mechanical systems shall be raised at least 3 inches (76 mm) above the finished grade, and shall conform to the manufacturer’s installation instructions.

**M1411.3.1 Auxiliary and secondary drain systems.** In addition to the requirements of Section M1411.3, a secondary drain or auxiliary drain pan shall be required for each cooling or evaporator coil where damage to any building components will occur as a result of overflow from the equipment drain pan or stoppage in the condensate drain piping. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope). Drain piping shall be a minimum of 3/4-inch (19.1 mm) nominal pipe size. One of the following methods shall be used:

(The remainder of the section to remain unchanged.)

(7) Chapter 17, “Combustion Air”, is hereby amended to read as follows:

**M1703.2 Two openings or ducts.** Outside combustion air shall be supplied through openings or ducts, as illustrated in Figures M1703.2(1), M1703.2(2), M1703.2(3) and M1703.2(4). One opening shall be within 12 inches (305mm) of the top of the enclosure, and one within 12 inches (305mm) of the bottom of the enclosure. For LPG appliances, any duct serving the lower opening shall be at the floor level and slope to the outdoors without traps or pockets. Openings are permitted to connect to spaces directly communicating with the outdoors, such as ventilated crawl spaces or ventilated attic spaces. The same duct or opening shall not serve both combustion air openings. The duct serving the upper opening shall be level or extend upward from the appliance.

(8) Chapter 24, “Fuel Gas”, is hereby amended to read as follows:

**G2415.9 (404.9) Minimum burial depth.** Underground piping systems shall be installed a minimum depth of 12 inches (305 mm) below grade for metal piping and 18 inches (457mm) for plastic piping.



(9) Chapter 35, “Services”, is hereby amended to read as follows:

**Revise Table E3503.1 as follows (Minimum Grounding Electrode Conductor Size to remain the same)**

CONDUCTOR TYPES AND SIZES–THHW, THW, THWN, USE, XHHW (Parallel sets of 1/0 and larger conductors are permitted in either a single raceway or in separate raceways)		Service or Feeder Rating (Amperes)	
Copper (AWG)	Aluminum and copper-clad aluminum (AWG)	≤30°C (86°F)	> 30°C (86°F)
4	2	100	
3	1	110	
2	1/0	125	100
1	2/0	150	125
1/0	3/0	175	150
2/0	4/0 or two sets of 1/0	200	175
3/0	250 kcmil or two sets of 2/0	225	200
4/0 or two sets of 1/0	300 kcmil or two sets of 3/0	250	225
250 kcmil or two sets of 2/0	350 kcmil or two sets of 4/0	300	250
350 kcmil or two sets of 3/0	500 or two sets of 250 kcmil	350	300
400 kcmil or two sets of 4/0	600 or two sets of 300 kcmil	400	350
500 kcmil	750 kcmil		400

(10) Chapter 38, “Power and Lighting Distribution” is hereby amended to read as follows:

**E3802.7** Sink, wash basin, tub, or shower receptacles. All 125-volt, single-phase, 15- and 20- ampere convenience receptacles that are located within 6 feet (1829 mm) of the outside edge of any sink, wash basin, tub, or shower shall have ground-fault circuit-interrupter protection for personnel.